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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/008,371	12/06/2001	Erich Strasser	56/361	4363	
7590 06/01/2005			EXAMINER		
JOHN C. FREEMAN			WORKU, NEGUSSIE		
BRINKS HOFER GILSON & LIONE P.O. BOX 10395			ART UNIT	PAPER NUMBER	
CHICAGO, IL 60610			2626		
			DATE MAILED: 06/01/2009	DATE MAILED: 06/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	F					
	Application No.	Applicant(s)				
Office Action Commons	10/008,371	STRASSER, ERICH				
Office Action Summary	Examiner	Art Unit				
	Negussie Worku	2626				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ei6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 De	ecember 2001.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	_ · · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		·				
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1.6,7 and 12</u> is/are rejected.						
7)⊠ Claim(s) <u>2-5 and 8-11</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>06 December 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Mul						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>Jun 03,2002</u>.</li> </ul>		atent Application (PTO-152)				

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#### **DETAILED ACTION**

### Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The following title is suggested: "position measuring system".

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112: specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 3. Claims 1, 6, 7 and 12, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular independent claims 1 and 6 are vague and indefinite how the measuring system is controlled. The claims generate an error, but fail to recite how the system is controlled. Claims 7 and 12 are rejected for depending upon rejected claim 6.

## Claims objected to having Allowable subject matter

4. Claims 2-5 and 8-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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With respect to claims 2-5, the prior art searched and of record neither anticipates nor suggests the method, further comprising: generating a third scanning signal C = a + cosa; generating a fourth scanning signal D = a - cosa; wherein said first scanning signal is represented by A = a + sina and said second scanning signal is represented by B = a - sina, wherein a is a d.c., component and a is an angular value that ranges from 0 to 3600 degree and is proportional to an instantaneous position within a graduation period of said graduation and said scanning signals A, B, C and D are each of which phased-shifted by 90 degree from each other.

With respect to claim 8-11 the prior art searched and of record neither anticipates nor suggests the measuring system wherein said detector system further generates: a third scanning signal  $C = a + \cos a$ ; a fourth scanning siral  $D = a - \cos a$ ; wherein said first scanning signal is represented by  $A = a + \operatorname{signal}$  and said second scanning signal is represented by  $B = a - \sin a$ , wherein a is a d.c. component and (z is an angular value that ranges from 0 to 3600 and is proportional to an instantaneous position within a vaduation pedod of said graduation and said scanning signals A, B, C and D are each of which phased-shifted by 90 degree from each other.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Negussie Worku whose telephone number is 571-272-7472. The examiner can normally be reached on 9am-6pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on 571-272-7471. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Negussie Worku

KIMBERLY WILLIAMS